thetech.com

Volume 136, Number 22



WEATHER, p. 4

THU: 82° F | 72° F

Mostly Cloudy
FRI: 88°F | 66°F



Partly Cloudy

Thursday, September 8, 2016

BU Law clinics will continue this year

Clinic director: I'm not representing MIT — we represent the students.'

By Olivia Brode-Roger
STAFF REPORTER

The second law clinic, focused on technology and cyberlaw, launches this fall. Overseen by Boston University Law faculty, the clinics partner students from MIT with BU Law students who provide legal assistance with issues related to their innovative activities.

"We know that the demand [for legal assistance] is very high," director Andy Sellars JD said. Indeed, last year's clinic on innovation reached more than 75 MIT ventures, "we're expecting a similar number."

Sellars emphasized that these ventures can range from starting a business to purely academic research

"We're here to help students do crazy-exciting things," Sellars said "I hope I can break the feeling that lawyers are here to say no."

The excitement in Sellars's voice is palpable.

"I teach what I call constructive lawyering. Lawyers have a bad rep for being the ones who say no. I want to work with the client to get what they want."

Sellars is also quick to clarify who the client is: "I'm not representing MIT. We represent the students."

Sellars explained that the clinic can help in many ways.

The first is at the design stage: "when your legal spidey-sense is tingling, just contact us," Sellars said. Both clinics have a single point of contact, the mailing list bulaw.

In addition to preventative consultations, the clinic can also represents students facing less-hypothetical legal issues. "As far as I can tell, MIT is the only school that does this, at least in the tech

sphere... This hasn't happened before," Sellars said.

Sellars also wants the clinic to "be of service to those who want to take on the policy fight. We aren't interested in taking positions in our own name. We're here to be an advocate for the students."

The clinics find their origin in Fall 2013 when Jeremy Rubin '16, was subpoenaed by New Jersey's Attorney General for work done at a hackathon. MIT's General Counsel, which represents the institute, declined to take a non-Institute case but still put Rubin in contact with the Electronic Frontier Foundation. After a failed challenge to the subpoena, a settlement was reached in May 2015.

In reaction MIT's lack of legal support for the student, Prof. Hal Abelson PhD '73, Prof Ethan Zuckerman and Nathan Matias G authored an open letter calling for MIT to make a stronger stand in the case, explaining that they considered "[the] subpoena to have a chilling effect on our own work."

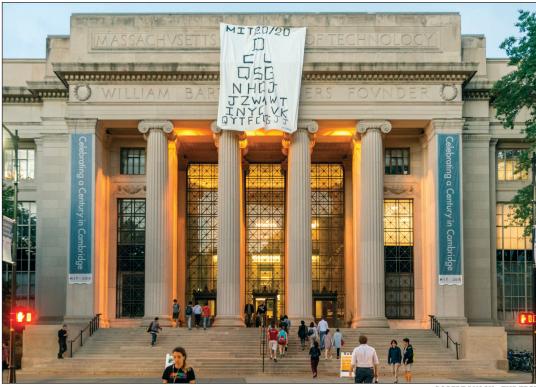
That letter resonates strongly with Sellars. "It is a big part of why I'm here. I've met with all of [the authors], I hope to build the clinics to their satisfaction."

Zuckerman echoed a similar sentiment. "I'm glad we wrote the letter. It led to three things I feel good about," he said.

The first is a series of IAP classes entitled "Hackers, know your rights" on which Kate Darling, the Intellectual Property research specialist at the Media Lab worked on with Sellars.

"[Sellars] is well known to our community," Zuckerman added, "he's been on the cutting edge of

Law clinic, Page 12



ROBERT RUSCH—THE TECH

An eye chart hung outside lobby 7 commemorates the first day of classes for the MIT Class of 2020.

Chris D'Elia featured as FallFest comedian

Chris D'Elia will be the featured comedian during this year's FallFest, UA Events Committee co-chair Laura K. Yenchesky '19 told *The Tech*.

She hopes that this iteration of the event, which takes place Sept. 30 at 7:30 p.m., will sell out the 1,132-seat Kresge Auditorium.

Yenchesky admitted that selling out Kresge is a lofty goal.

She said the committee se-

lected D'Elia because he offered a type of comedy that MIT students would enjoy, is currently popular, and was willing to perform at a reasonable cost.

Her co-chair Victoria S. Petrova '17 said that she hopes that D'Elia will appeal to "as much of the student body as possible."

The event itself is subsidized by funds that are provided to the committee through the SAO each year. A tie-in study break on the steps of W20 this Friday at 4 p.m. will be paid for by funds allocated in the UA budget. The study break is, among other things, a chance for the events committee to recruit by answering questions students might have about the committee.

Tickets are available for purchase at http://tickets.mit.edu/.

—William Navarre

IN SHORT

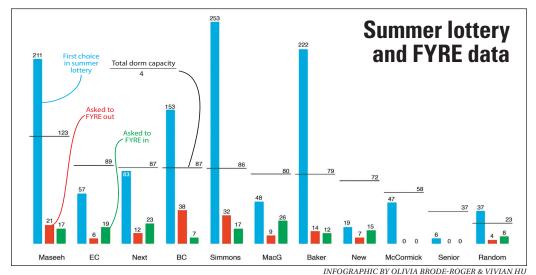
MIT Extended Plan medical insurance must be waived before Thursday, Sept. 15 to avoid paying for redundant coverage.

Physical Education classes begin Monday, Sept. 12.

Add date is Friday, Oct. 7. Not only is it the last day to add a class, but is

in many cases the last day to change grading option.

Send news and tips to news@tech. mit.edu.



Residential Life released data on lottery first choices, FYRE move in and move out requests. However, the distribution of the 2020s throughout the dorms was not released, obscuring the relative demand for dorms.

In order to help interpret these data, we have added an estimate of dorm capacity. This is particularly meaningful for Random, which ranked third in number of first choices, but is only one of five dorms to have that number exceed its capacity.



VIVIAN HU—THE TECH

A group of seniors enjoy their last first day of classes at MIT on Killian Court.

"SHOOT A PREZ, WIN A PRIZE"

A musical about presidential assassinations. **ARTS, p. 10**

SUSPENSEFUL OPENING GAME

Last minute loss for MIT football team. **SPORTS, p. 16**

PATIENT AUDIENCES WANTED

The cultured will enjoy *The Light Between Oceans*. **ARTS**, **p. 10**



FIRE! FIRE! FIRE!

Breathing it, and on a stick! **PHOTO, p. 8**

POKEMON GO IN THE MOTHERLAND

Catching them all in Tokyo. **CAMPUS LIFE**, **p. 7**

SECTIONS

Fun Pages		3
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2 The Tech
Thursday, September 8, 2016

THANKS FOR AN AWESOME SUMMER!

BOJAN SERAFIMOV MAHI SHAFIULLAH

WE MISS YOU ALREADY

FROM SAMANTHA, PREDRAG, AND ALL OF

KENSHO



THE TECH 3 THURSDAY, SEPTEMBER 8, 2016













WWW. PHDCOMICS. COM

Orientation

Solution, page 11

		6		8		9		7
4	7		2		6	3		
9							6	
		4		1		5	7	
				3				
	9	7		2		4		
	3							6
		1	8		3		9	5
5		9		6		1		

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Disorientation

Solution, page 11

14+				15×	12×
6×	10×		4		
	3×	96×			5÷
40×		60×			
	5		18×		
	1÷				4

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

Put it in Writing by Gail Grabowski

Solution, page 11

ACROSS

1 Rabbit relatives 6 "__ the night before . . ."

10 Top-billed performer

14 Musical drama 15 Organization for people

16 Sport on horseback

17 Get an education

18 Chauffeured car, for short 19 Much-admired celebrity

20 Upper-left PC key

21 Sheet to excuse an

absence 24 Grasped in one's hand

26 Evaluate

27 Sailor's "Hello!"

29 Use a shovel

32 Saw socially

35 Tennis-playing area

37 __ game (pitcher's dream)

39 "Absolutely!"

41 Sheet from a coworker

44 Small speck 45 Paperless novel

46 Style of furnishing 47 Wanders around

49 Salesperson, for short

51 No longer in town

52 State of mind

54 "__ hardly wait!"

56 Sheet sent with a résumé 61 Touch on the shoulder

64 Baking appliance

65 Canyon sound

66 In separate pieces

68 Provide temporarily

69 Stretched tightly

70 Big tourist attraction 71 __ and crafts

72 Otherwise

73 Forest trails

DOWN

1 Center of a bagel

2 Gorillas and chimps

3 Try communicating with 4 Make a mistake

5 Type of bank, for short 6 Bath powder

7 Be patient

8 Knight's suit

9 Occasional

10 Small piano 11 Chore list heading

12 Frequently

13 Performer's part

22 Unusual 23 Said specifically

25 Jane __ (Brontë novel)

27 Corrosive compound

28 Pay tribute to 30 Data, for short

31 __ broke (risk it all)

33 Direct look from a speaker

34 Evil spirit

36 Minor earthquake

40 Feeling achy

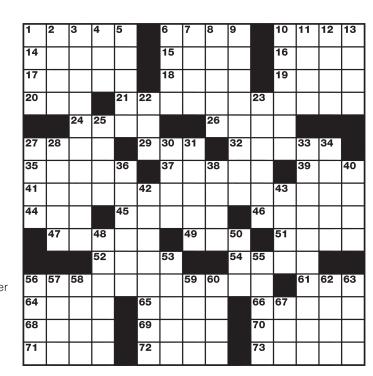
38 Walk in the woods

42 Out-of-date 43 Prefix for bytes or bucks

48 Modifies, as legislation

50 Boston cream or Key lime

53 Window stick-on 55 Muscle twinge



56 Coke or Pepsi

57 More than

58 Clothes-dryer duct

59 Therefore

60 Carryall bag

62 Curved part of the foot

JNFUNFUNFUNFUNFU

63 Grade-school support grps. 67 Little green veggie



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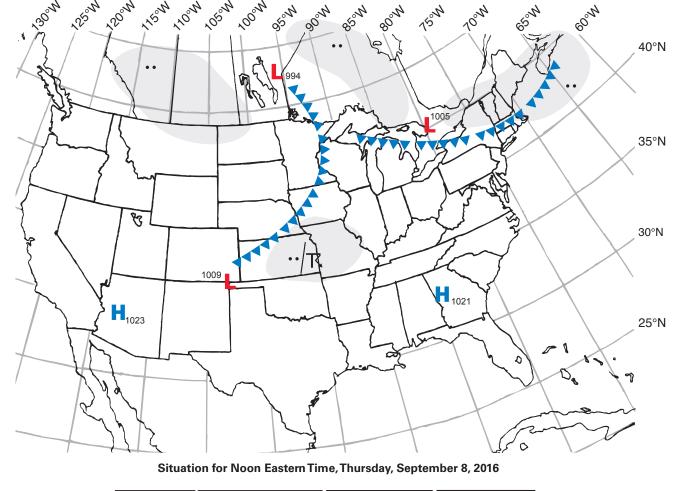
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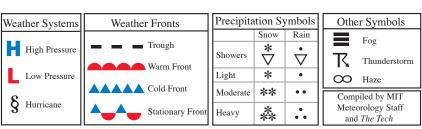
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WEATHER

An end to Hermine

By Costa Christopoulos

STAFF METEOROLOGIST

After striking Florida and ending a 9 year US hurricane drought, Hermine strengthened and began slowly tracking up the eastern seaboard this week. The storm then became trapped off the southeastern coast of New England after evolving into a post-tropical cyclone, where it has been gradually weakening. This morning, the mingled

remains of what was once Hermine will rotate through the Cape before dissipating ahead of an approaching cold front.

Tomorrow a weak front passes through the area, bringing a slight chance of showers early in the morning. Weak high pressure should result in a pleasant Saturday, with mostly sunny skies and highs around 80°F. After another round of scattered showers Sunday morning, another front will usher in cooler air for early next week.

Extended Forecast

Today: Mostly cloudy. High of 82°F (28°C) . Winds east at around 5 mph.

Tonight: Chance of rain. Low of 72°F (22°C). Winds southwest at 5-10 mph.

Tomorrow: Partly cloudy. High of 88°F (31°C). Winds west at 5-10 mph.

Saturday: Partly cloudy. High of 79°F (26°C). Winds southwest at 5-10 mph.

Sunday: Mostly cloudy. High of 81°F (27°C). Winds west at 10-15 mph.

CORRECTIONS

A subhead in last week's paper implied that a new dorm that will be opened on West Campus in 2019 will have 700 beds. In fact, the new dorm has been recommended to have between 350 and 400 beds, according to preliminary planning notes sent out in an email by DormCon president Kate M. Farris '17. The Institute is planning eventually to have 700 more beds, some of which may be in another new dorm. When The Tech had inquired about whether there were two new dorms being planned, and where they would be located,

Kim Haberlin, Senior Communications Officer for the Chancellor said that "no decisions about one dorm (let alone two) and a location have been made at this point."

An article about the Good Samaritan Help Seeking Policy last week did not properly explain how the policy changes came about. The article implies that students worked directly with administrators to convince them to make the policy changes. In fact, the Committee on Student Life (made up of both faculty and students) strongly recommended that the chancellor consider revisions, prompting the discussions that followed.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Colleen Madlinger, Editor in Chief Katherine Nazemi, Managing Editor Vivian Hu, Executive Editor William Navarre, and Opinion Editor Claire Lazar

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

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Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once

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Guest columns are opinion articles submitted by members of the MIT or local community.

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DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (**hint:** yours!).

Email your pieces to cl@tech.mit.edu!

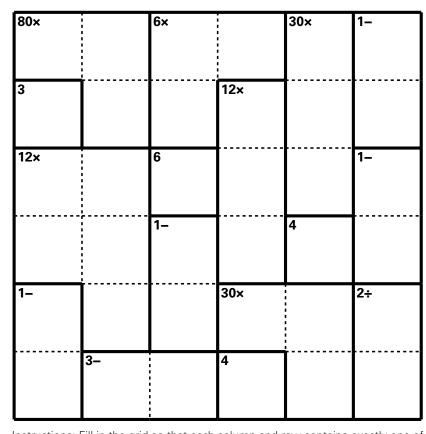
Rush

Solution, page 11

5		2				8		
		6				9		1
	1		6		9		4	
		1	5	8		6		4
2		4		6	1	3		
	6		2		4		1	
4		7				5		
		9				4		8

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Recruitment

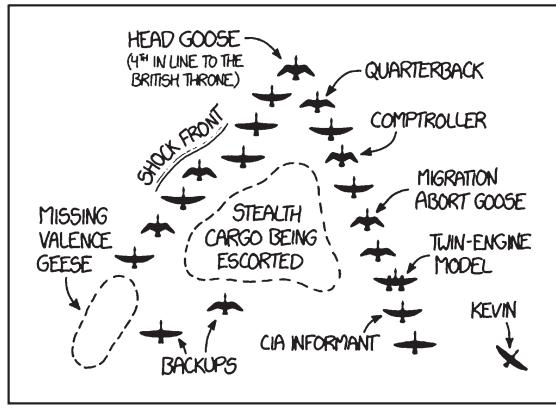


Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

[1729] Migrating Geese

UNDERSTANDING MIGRATING GEESE





"Hey guys! I have a great idea for a migration!" "Dammit, Kevin."

Lots of Nothing by Billie Truitt

ACROSS

1 Make suitable

6 Overly proper 10 Pays for

14 Bit part for a big star

15 Make over 16 Resting on

17 Blowhard's false claim

19 Fury

20 __ Moines, IA 21 Percussion instrument

22 Donkey's sound

24 No longer valid

25 Appear to be

26 Sea journey

29 Han Solo portrayer Ford

33 Baldwin of 30 Rock

34 Come up short

36 Break __ (split)

37 Succotash beans

39 Teacher at a golf course

40 "Old MacDonald" refrain

41 Major happening

42 Farm enclosures 44 Department stocking ties 45 Arm of an octopus

47 Plod along

49 Kingly address 50 Wander widely

51 Chanted phrase

54 The Red Planet

55 Life story, for short

58 Vicinity

59 Unlimited authority 62 Truth twister

63 lcy hazard for ships

64 More competent 65 Overdue

66 Harness for oxen

67 "__ luck!"

DOWN

1 Passed with flying colors

2 Titled British woman

3 Sound boosters

45 Down, for one

5 Peke or Chihuahua 6 Self-satisfied

7 Package of paper 8 Picks from a lineup 9 She's honored in May 10 Smallest acceptable

amount

11 Great Salt Lake state 12 Meditative exercise

13 Erupt

18 Terse in speech

23 Spooky

24 Clueless look

25 Beauty parlor

26 Car parker

27 Martini garnish 28 Saudi Arabia neighbor

29 New staffer

30 Spirited horse 31 Having debts

32 Lariat loop

35 McIntosh or Delicious

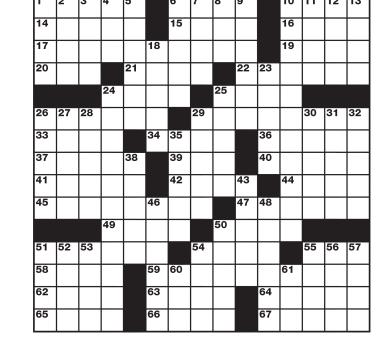
38 Up-or-down walkway

43 Bird on an "It's a Girl!" sign

46 Bad-tempered

48 Mischief maker

50 Stovetop cooker 51 Shopping center



52 Opera solo

53 Tidy

54 Grade, for a test

55 Trousers support

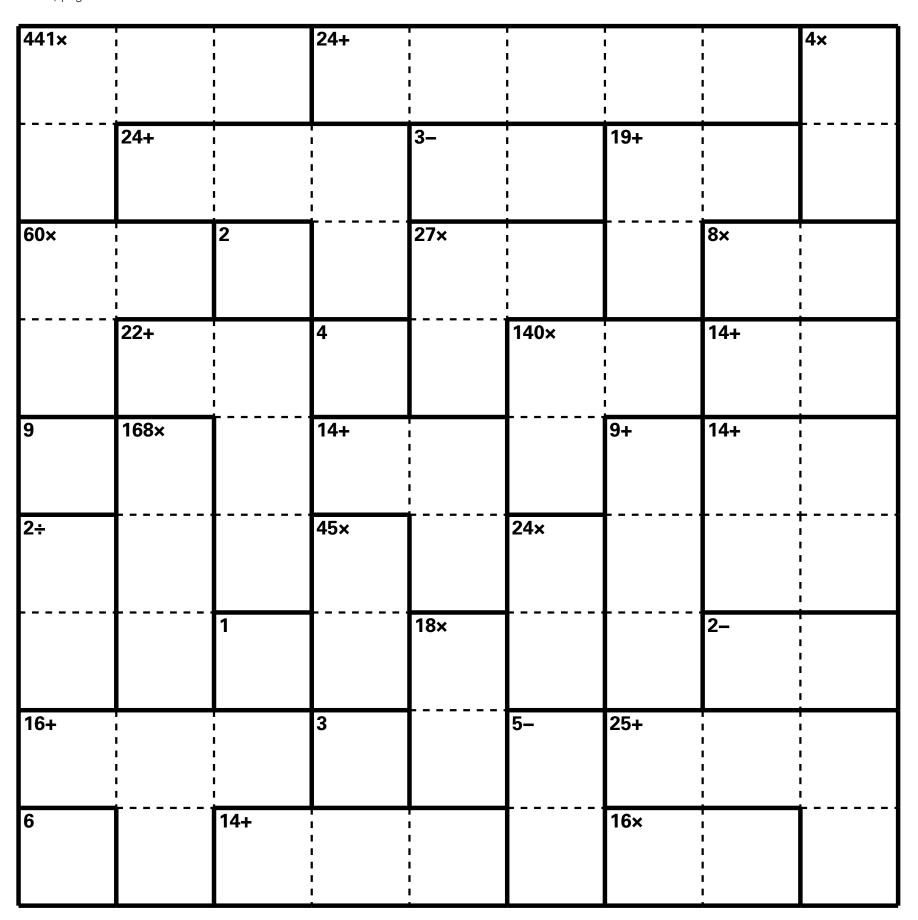
56 Puts frosting on

57 Gumbo vegetable 60 Lion constellation

61 Cable film channel

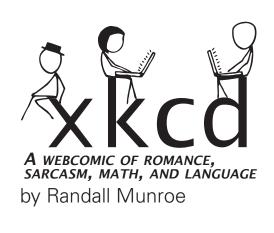
Giant Techdoku

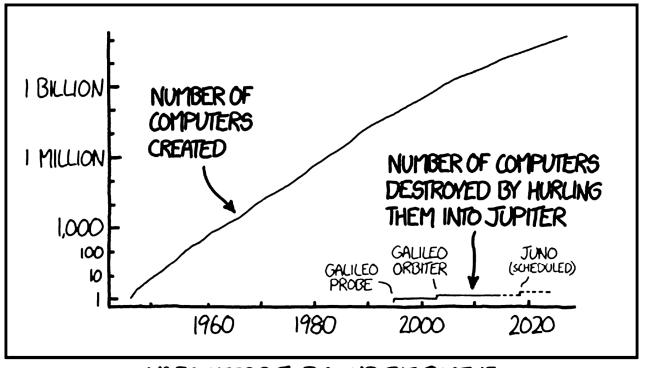
Solution, page 12



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

[1727] Number of Computers





NASA NEEDS TO PICK UP THE PACE IF THEY EVER WANT TO FINISH THE JOB.

Pokémon and robots

Catching them all in Tokyo

By Meredith Benson

After over a month of working at Yoshimoto Robotics in the heart of the great metropolis of Tokyo, my life had fallen into a routine. Every day I became one with the system as I maneuvered my way onto the train like a practiced expert, sliding in next to the salarymen on their way to the office.

My work was far from mundane as I programmed Pepper, a humanoid robot designed to interact with everyday people, to entertain others by playing games and responding to human touch. However, every day was roughly the same: wake up, ride the train, work, ride the train home, repeat. Everything changed when Pokémon Go took Japan by storm.

The morning of the great change began as any other. My alarm rang at 8:30 a.m., and I rolled over to turn off the obnoxious beeping before my five roommates could complain. While unlocking my phone, I was suddenly bombarded with dozens of messages from excited friends: after two long weeks of waiting, finally Pokémon Go had come to the motherland. The augmented reality of the smartphone game brought the Pokémon of my childhood to life as I traveled around the city to catch them all. Each time my phone buzzed, my excitement grew in anticipation of meeting a new Pokémon.

Later, when I ascended from the underground passage that funnels office workers from the train station to various buildings into the skyscraper that housed my small office, everything appeared to be normal. I walked over to the reception desk and received a temporary badge just like every other day of the summer. As soon as I stepped into my office, however, I was hounded by several coworkers with "Did vou hear? Pokémon Go came out!"

My long commute to work became a dynamic adventure full of excitement, apprehension, and celebration over caught Pokémon. I enjoyed the game when I could, fully expecting to have to put my phone aside at any moment and pause my journey to be-



MEREDITH BENSON

Pepper, a humanoid robot that can be programmed to mimic someone playing Pokemon Go.

had burst and a flood of new social interaction and excitement washed over the office. Coworkers I had only spoken a few greetings to suddenly started to approach me

eryone scrambled to find their phones. We would compare differences between the English and Japanese names of Pokémon and discuss the best areas of Tokyo to find rare ones.

In the wake of the takeover, my company jumped on the wave of change that Pokémon Go brought to the world. In the following days, I was introduced to new ways of programming Pepper to move like a human and make its reactions more lifelike. As a training exercise, I carefully adjusted each intermediate movement so that Pepper could act out playing Pokémon Go. Throughout the day I would hear Pepper spout out words in many different languages from around the room. Prior to the big release, I would hear the occasional "howdy" or "konichiwa," but after the app came out, it was more common to hear "Pokémon Go!"

In the weeks following, the excitement of new Pokémon spiced up my workday. Coworkers would come over to check my level and see what new Pokémon I had caught. I was no longer the wallflower quietly completing my work one task at a time. I was finally part of the team, an active member of a community that could communicate through the challenging language barrier with the universal language for our generation: Pokémon.

The MIT International Science and Technology Initiatives (MISTI) program is MIT's flagship international education program. If you can see yourself joining a team of BMW engineers in Munich, teaching technology entrepreneurship in South Africa, testing solar panels in Israel, or tackling a research problem at the Curie Institute in Paris, then you're ready to join MISTI. Learn more at

Overnight my office had also changed from a quiet, peaceful work space to a lively, dynamic playground. It was like a dam had burst and a flood of new social interaction and excitement washed over the office.

coming a Pokémon Master until the end of the workday.

Overnight my office had also changed from a quiet, peaceful work space to a lively, dynamic playground. It was like a dam and initiate conversation. I was suddenly in the "in crowd" with my extensive Pokémon knowledge gained from over ten years of experience. Every time a new Pokémon appeared, the whole office came alive as ev-

A MISTI SUMMER

Making change in Paris

The utility of buying a croissant for realizing harsh truths

By Vivian Zhong STAFF WRITER

The morning after Bastille Day, the

French national holiday, found me walking down the Rue Rambuteau in Paris. I was on the way to a boulangerie that boasted of having the best baguette in the city.

Two centuries ago, this neatly paved avenue was a narrow, winding path of cobblestone. It was on this road that the resurrection detailed by Victor Hugo in Les Miserables took place, and a coffee shop now stood at the ancient site of the barricade.

The streets were empty save for some early rising pedestrians, as well as a dozen homeless denizens who didn't have the option to leave. As the cafes opened shop, they too brought out cardboard signs that described their plights and pleaded for relief from them.

I had acquired a baguette and a croissant, and as I walked back to the metro station, I pondered.

The cost of my pistachio- and almondcrusted, raspberry jam-stuffed croissant

was around 3.50 euros. A baguette, enough for two people's breakfasts, would have been around 1.50 euros. Instead of gorging on an (admittedly delicious) pastry, I could have provided at least four people with breakfast and have enough money left over to buy some jam or fruit.

So why didn't I?

That probably would have added up an average of 15 people and 30 euros a day, depending on how often I used the metro that day and how long I spent on the streets instead of in museums. The total for those four days I spent in Paris would be about 120 euros. For the price of just the travel portion of my vacation, I could have provid-

Instead of gorging on a (admittedly delicious) pastry, I could have provided at least four people with breakfast and have enough money left over to buy some jam or fruit. So why didn't I?

My train ticket to and from Paris cost 120 euros total. That's twelve moderately cheap shirts, or a month's worth of food. Isn't feeding or clothing someone more important than my desire to gawk at the grandeur of the French monarchy of old?

It would have been so easy to give every single beggar I saw at least a 2 euro coin. ed an upwards of 60 people with breakfast. So why didn't I?

The research project that I worked on during my internship in France has, in the (very) long run, revolutionary implications for disease detection. The nano-resonator based mass spectrometer my team was developing, capable of analyzing neutral particles such as viral capsids, could (maybe, perhaps, eventually) save thousands of lives. But for all the hours that I worked on my small piece of the project, what if I had instead directly went out and helped the sans-abris, the homeless cooked for them, gave them a place to sleep anything?

My answer to this, as it is for far too many things in life, is je ne sais pas. I don't know. Perhaps it was inertia, discomfort, the bystander effect — any range of things that shame me to admit. All I can do is do better. So far this semester I've started a UROP investigating viral transmission, but I know a world of doing good still awaits.

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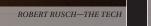
8 THE TECH Thursday, September 8, 2016









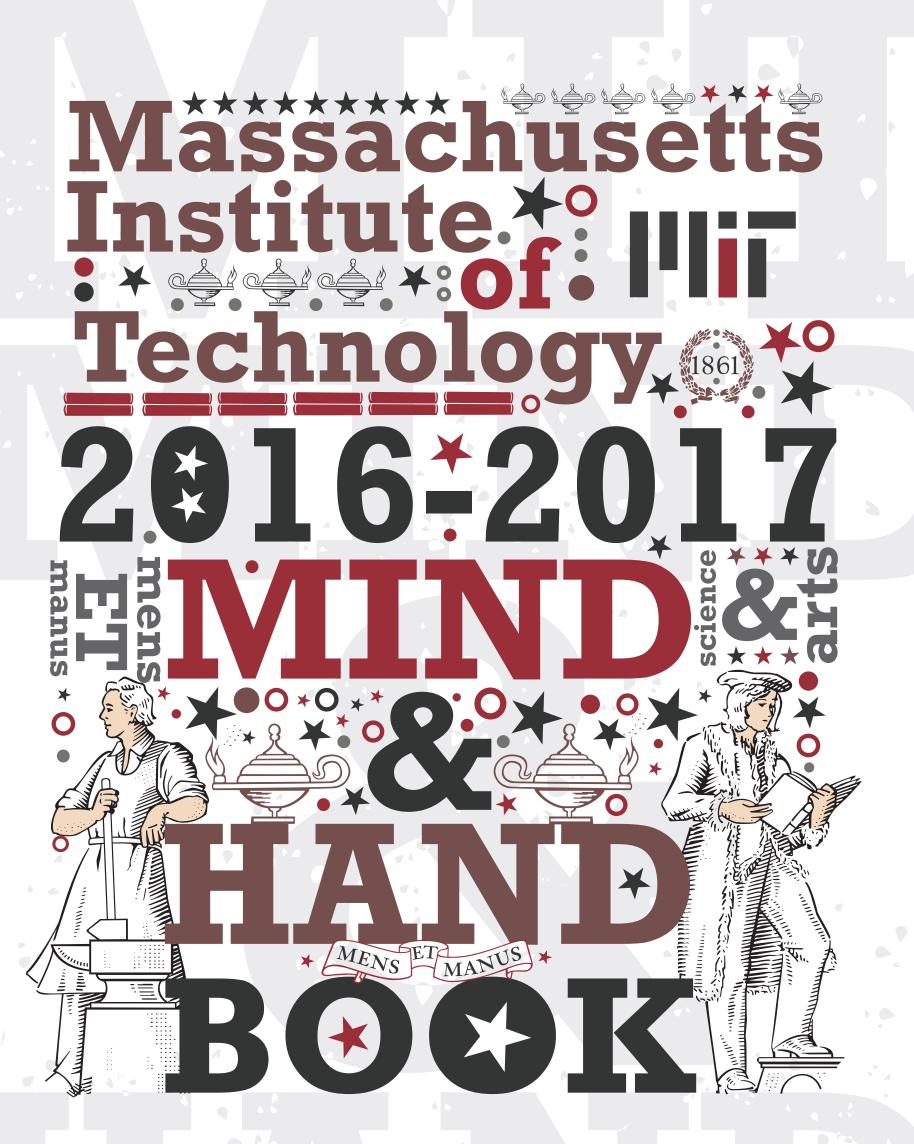




Fire Show.

Thursday, September 8, 2016

The Tech 9



The *Mind and Hand Book* is the official guide to MIT's expectations of all undergraduate and graduate students, including the policies on academic integrity, alcohol, drugs, hazing, and sexual misconduct.

http://handbook.mit.edu 🗢



MOVIE REVIEW

The Light Between Oceans is a journey of romance with many crossroads

The Venice Film Festival submission is a tasteful treat for patient audiences

The Light Between Oceans

Directed by Derek Cianfrance

Starring Michael Fassbender, Alicia Vikander, Rachel Weisz

Rated PG-13

Now Playing

By Ray Wang

Janus. Well-known as the Roman god of two faces, symbolizing choices, transitions,

change, beginnings, endings. In Derek Cianfrance's romance drama, *The Light Between Oceans*, Janus is also an isolated island lighthouse overlooking two oceans and the setting for an intriguing story of love and loss, a journey worthy of the lighthouse's namesake.

Tom Sherbourne (Michael Fassbender) is a world-weary veteran who takes a lonely post off the coast of Australia as Janus's keeper. A young townswoman, Isabel (Alicia Vikander) manages to soften his stoic shell, and they marry to begin a life on the remote rock of an island.

The first act of the film is slow and searing, as it depicts the couple's struggles to have a child. Isabel's two miscarriages build up gutwrenching emotion and pain, thanks to Vikander's spectacular acting.

In an almost biblical moment, a dinghy washes onto Janus's shore, a baby's wails emanating from its cradle-like hull. It seems a moment of deliverance for Tom and Isabel. But, when they peer inside, they realize it's also a coffin — a man, pale and puffy with

death, lies inside.

With the watchful eye of Janus peering down at them, Tom and Alicia reach their first turning point together.

Alicia, in her torment over her recent losses, wants to keep the baby and conceal the body. Tom is torn between his duty to report the incident and his devotion to Alicia. In his greatest moment of weakness, he decides to cover up the episode and adopt the baby, a choice that seems more like a punishment to his moral character.

The first act is truly bittersweet, but it's dampened by the slow-cooking plot. Tom develops little as a character, with Alicia Vikander pulling most of the emotional weight to keep us invested. The second act, taking place years later, picks up the pace, and the major twists and messages of the movie are revealed grandly.

The cinematography is also gorgeous to the point of heartache. Only near the climax of the film do we see a panoramic shot of Janus Island in its entirety, a sweeping view of the scraggly rock in the midst of endless ocean. Until this point, we've been treated to beautiful shots of fragments of the island, almost inviting the audience to construct the rest of the island with our imagination. Just one shot brings into perspective how diminutive the island truly is, stripping away our fantasies, simultaneously shrinking and tearing down the world that the Sherbournes live in — which we discover is a fantasy as well.

Praise must be given to Michael Fassbender; he does his best to portray a man as stolid and awkward as Tom Sherbourne. Veering dangerously close to wooden at times, Fassbender always manages to correct himself and produce something passably genuine at every turn.

Hampered by its length of over two hours, but driven by reliably excellent performances, *The Light Between Oceans* does just enough with its story to deliver its message, and it is certainly a cinematic treat for patient and refined moviegoers.

The Light Between Oceans will compete for the Golden Lion at the Venice Film Festival

THEATER REVIEW

Everybody's got the right to be morbid

MTG's Assassins seamlessly blends dark comedy with somber history

Assassins

Performed By MIT Musical Theatre Guild

Music and Lyrics by Stephen Sondheim

Book by John Weidman

In Kresge Little Theater

Running Sept 8, 9, 10, 15, 16, and 17 at 8 p.m.

By Nafisa Syed

Framed as a macabre carnival game, Assassins delves into the stories of men and

women who attempted to assassinate presidents of the United States. From the second the curtain rose, the show expertly toed the line between tragedy and dark humor. The simply furnished set highlighted the actors' expressions and movements, while still setting a dark undertone: the show opened with monochrome presidential portraits framed by the eerie sign "SHOOT A PREZ WIN A PRIZE."

In the opening number, the carnival's proprietor, played by Rachel Nations '16 hones in on each assassin's weakness. She eggs them on with a bright, persuasive tone, urging that "Everybody's got the right to be happy."

As the show moves from assassin to assassin, the balladeer, played by Nick Stevens, a Cambridge-based professional actor, musician, and improviser, provides the glue that binds their stories together. Stevens' character explicates each assassin's situation in lamentative song. His passionate delivery maintains the audience's sympathy

for the assassins while simultaneously expressing deep regret for their wrongdoings.

I found my stomach in knots for the lives of the motley crew of assassins, despite knowing full well the sordid outcome for each of them. Brandon Sanchez '18 portrays a glib and charismatic John Wilkes Booth, convinced until the end that his actions were justified. Professional actor Tyler Crosby's pompous, delusional Charles Guiteau adds a much-needed levity, drawing smiles from the audience with his desires to be ambassador of France as well as an esteemed author. Graduate student Paul Gallagher's serious, embittered Leon Czolgosz provides a sharp contrast to Guiteau as he contemplates the wretched plight of immigrant workers. Professional performer Meghan Jolliffe's impassioned, impulsive portrayal of Giuseppe Zangara makes the audience wish he had chosen another path, while Cambridge-based research psychologist Lucas Commons-Miller's sardonic, cynical delivery of Samuel Byck's personal and political rants yields as much mirth as it does anguish.

Professional actress and artist Kitty Drexel's Lynette Fromme and Megan O'Leary '16's Sarah Jane Moore create a strange camaraderie, captivating the audience with the bizarre chemistry only a disillusioned, clumsy housewife and a teenaged follower of Charles Manson can provide. Jacob Martin '18's performance as the awkward, Jodie Foster-obsessed John Hinckley, Jr. is one that deeply appeals to the audience's sympathies, making them bemoan the tormented young man's actions.

In a clever casting choice, Stevens further binds the assassins' stories by playing a frenetic, frightened Lee Harvey Oswald who is confronted by the ghosts of assassins future and past. Stevens' gripping performance in this moment, as Oswald makes his life — and history — altering decision, is a highlight of the production.

Through a turmoil of emotions and song, *Assassins* forces the audience to regard the

flawed actions and human circumstances that drive large-scale historical events. Though clarity of thought may elude the show's characters, the Musical Theatre Guild's production of Assassins clearly provides a thought-provoking and dynamic experience.

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Solution to Orientation

1 5 6 3 8 4 9 2 7 4 7 8 2 9 6 3 5 1 9 2 3 1 7 5 8 6 4 3 8 4 6 1 9 5 7 2 2 1 5 4 3 7 6 8 9 6 9 7 5 2 8 4 1 3 3 2 9 5 1 7 6 1 8 4 3 2 9 5

Solution to Disorientation

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from page 3

3	4	1	6	5	2
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Solution to Writing

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Solution to Rush

from page 5

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Solution to Recruitment

4	5	2	3	1	6
3	4	1	2	6	5
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Solution to Nothing

	from page 5													
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V	0	Υ	Α	G	Ε		Н	Α	R	R	I	S	0	N
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X = SparseAutoEncoder(num_hidden=10).fit_transform(features) xycoords = TSNE(random state=17).fit transform(X) DBS = cluster.DBSCAN().fit(X) plt.scatter(xycoords[:, 0], xycoords[:, 1], color=colors[DBS.labels_])



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should say grammar



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'We can turn this into a movement'

Professor Zuckerman wants law clinics to spread through academia

Law clinics, from Page 1

media and law [...] and has been interested since the beginning."

The second one is the Fall 2015 freedom2innovate summit, which explored whether it was possible to build an academic movement to protect research from chilling legal

Zuckerman further details a discussion at the summit about research that was effectively being forbidden, either because of legal or moral barriers. That discussion lead to the recent Forbidden Research conference at the Media Lab, attracting many prominent speakers, including Edward Snowden, known for leaking classified NSA information about surveillance programs.

Finally, "the clinics are the most practical response to the Tidbit case," Zuckerman said. "MIT is doing something brave and innovative ... it is a recognized fact that when you are doing cutting edge work, you are in a gray area. If students don't have legal support, their trend is to back away from their ideas." Zuckerman hopes the clinic becomes "[the] model that other universities end up replicating."

Beyond the clinic, Zuckerman has high hopes for its impact: "I would love to see my colleagues realize we need to be proactive, rather than reactive, on the freedom to innovate I would love for people to become more active

"I hope I can break the feeling that lawyers are here to say no."

against laws on the books like CIFA. I would love to hear about places when legal uncertainty has limited [my colleague's] research. We can turn this into a movement."

Sellars said that BU Students are also excited about the clinic, receiving far more applications than the 8 spots allow for, making the clinic likely to grow.

Sellars will be holding office hours all day each Friday and is exploring the possibility of teaching a condensed IAP class and offering services during the summer.

"I hope that this gets woven into the fabric of MIT," concludes Sellars. "Like you have a school doctor, you have a school lawyer."

Solution to Giant Techdoku

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7	6	4	_	5	2	9	3	1
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4	3	1	5	2	8		9	7
2	1	8	3	9	_	4	7	5
6	5	3	7	4	1	8	2	9

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Line Drawing: Lucy Sike

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Spacecraft to fetch sample of asteroid

OSIRIS-Rex returns to Earth in '23

Kenneth Chang

THE NEW YORK TIMES

For the next two years, NASA's latest robotic spacecraft will be chasing down an asteroid near Earth in the hopes of scooping up some of the most primordial bits of the solar system.

The premise of the mission for the spacecraft, OSIRIS-REx, is simple: Fly to an asteroid, grab some of the rock and bring it back to Earth, where scientists will study some of the pristine ingredients that went into the making of the solar system, including possibly the building blocks of life.

The spacecraft is sitting on top of an Atlas 5 rocket at Cape Canaveral, Florida, ready for launching on Thursday on a seven-year mission.

Once off the ground, OSIRIS-REX

— a shortening of Origins, Spectral
Interpretation, Resource Identification, Security, Regolith Explorer

— will be aiming to get close to the
asteroid Bennu.

"It's a time capsule from the earliest stages of solar system formation," said Dante Lauretta, a professor of planetary science and cosmochemistry at the University of Arizona who is the mission's principal investigator.

OSIRIS-REX will survey Bennu for more than a year to select the site where it will grab the sample of rock. In July 2020, the spacecraft, about the size of a sport utility vehicle, is to slowly descend and bounce off the surface like a pogo stick at a gentle pace of a quarter-mile per hour. A sampling head will shoot a burst of nitrogen to kick up dirt and small rocks during the three to five seconds it is in contact with the surface.

The goal is to collect at least a couple of ounces of material and possibly as much as 4.4 pounds. The spacecraft carries enough nitrogen to attempt to extract material three times if necessary.

After departing Bennu in 2021, OSIRIS-REx will pass by Earth in September 2023, dropping off a capsule with the samples that will land via parachute in a Utah desert.

Lauretta said he was particularly interested in gleaning information about organic molecules like amino acids, the building blocks of proteins that are known to float in outer space. One question is whether Bennu contains higher concentrations of the 20 amino acids used by forms of life on Earth compared with dozens of others not found in living organisms.

Life on Earth also exclusively uses so-called "left-handed" amino acids and not the mirror, right-handed versions. Study of the Bennu material could help explain whether nonbiological chemical reactions in space pushed life toward left-handed molecules or whether that shift occurred later when life arose.

For Lauretta, OSIRIS-REx's launching is a culmination of a dozen years of work. In 2004, officials at Lockheed Martin discussed the idea of an asteroid return mission with Michael J. Drake, the head of the Lunar and Planetary Institute at Arizona. Drake invited Lauretta to take part.

Lauretta came up with the name. "That's entirely my fault," he said.

As he jotted some themes of the scientific objectives — origins, spectroscopy, resources and security — he had most of the letters of Osiris, the Egyptian god who was the lord of the underworld but who also represented the seeds of regeneration to new life.

Meanwhile, engineers at Lockheed Martin had to figure out how to grab a bit of asteroid. The company held a contest. Many of the proposals suggested landing and scooping, but an engineer named James Harris came up with the pogo stick idea, testing out a prototype in his dirt driveway with a plastic cup and an air compressor.

"Now instead of worrying about how to anchor a spacecraft to an asteroid," said Richard Kuhns, the program manager for OSIRIS-REx at Lockheed Martin Space Systems, "in almost no gravity, you get to gently touch it, take your sample and then back away. Much, much safer for a spacecraft in that environment."

When the team added instruments to make detailed measurements of Bennu before grabbing the sample, Lauretta tacked Rex (Regolith Explorer) on to the name, because of the connotation with Tyrannosaurus rex and dinosaurs. "We wanted that connection," Lauretta said

Now, Lauretta is looking forward to three moments of OSIRIS-REx's journey. The first is when the spacecraft takes its first clear photograph of Bennu. "That is the moment of truth, what we are up against," he said.

The second is when the OSIRIS-REx grabs the bits of Bennu, and the third is when the sample arrives back on Earth, seven years from now.

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Football loses an overtime thriller to WPI in the season opener

By Daniel J. Newman SPORTS WRITER

The MIT Engineers dropped an overtime thriller 37-34 to WPI in the season opener. MIT rallied back from a 10-point deficit late in the fourth quarter to force

An impressive one-handed interception by Rob DiSanto '18 started the rally. The Engineers were quick to capitalize on the turnover as wide receiver Eddy Garcia-Montes '19 hauled in a touchdown catch in the red-zone with less than two minutes to play, cutting the deficit to three points.

There was more drama yet as the Engineers successfully recovered an onside kick. Despite getting sacked on the penultimate play quarterback Udgam Goyal '19 got his team in field goal range with 10 seconds remaining on the clock. Like many a time in his career kicker Tucker Cheyne '17 came through in the clutch, drilling a 37-yard field goal to force the game into

The aerial attack for the Engineers led the way, with stellar quarterback play from Goyal, who was 24-40 with 258 yards and 3 touchdowns. Eddy Garcia-Montes was a force on the outside, with 11 catches for 153 yards and 2 touchdowns. John Robertson '20 led the way on the ground with 24 carries for 87 yards. Matt Iovino '16 led the



Robert V. DiSanto '18 reaches out to intercept a pass during the last quarter of MIT's home season opener against WPI last Friday. The Engineers ultimately lost to WPI 34-31 in overtime.

way on defense with eight tackles, two of which were tackles for loss.

The Engineers take the field again on

Saturday, Sept. 10 when they will host Becker College for a 1 p.m. start at Steinbrenner Stadium.

SPORTS BLITZ

Women's field hockey (2-0) started its campaign with victories over Simmons and U. Mass. Dartmouth. Emily Penn '18 scored a hattrick in MIT's 4-1 victory over Dartmouth.

Women's volleyball (2-2) won its games against Haverford College and Delaware Valley while suffering reverses at the hands of Mary Washington and University of Heidelberg at the Haverford Invitational.

Women's soccer (1-1) Amy Apostol '19 scored one and set up another as the Engineers recorded a fine 3-1 victory away at Worcester State University.

Women's tennis (1-0) blanked Emerson 9-0. Elysa Kohrs '17 won her 100th career match.

Men's water polo (2-2) defeated Wagner and Johns Hopkins University at the Bruno Classic.

Men's soccer (1-0) opened their season with a 1-0 victory away at Stevens Institute of Technology.

— Souparno Ghosh

Do you wish your sport was covered?

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sports@tech.mit.edu



LENNY MARTINEZ—THE TEC

Devon K. Goetz '20 challenges a player from Simmons College for possession of the ball during MIT's season opener against Simmons College last Thursday. The Engineers won the match 2-0.



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